

Requirements and Design

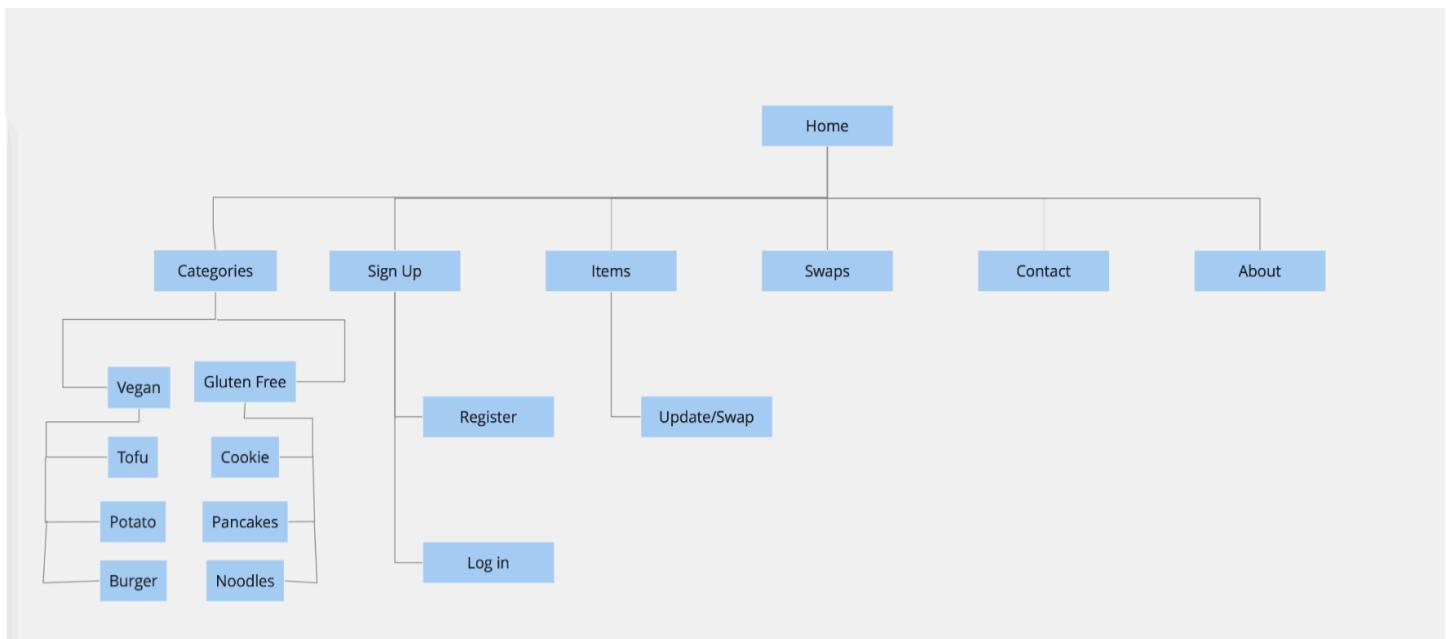
Application Overview

The “Healthy Eating” website is a place to view healthy food options, it allows users to swap the recipe with other options available. The application also allows users to rate the food item and thus give feedback. The target users are people who are health conscious and those who are looking for food inspiration to stay motivated in continuing their healthy lifestyle journey. The application allows users to swap to a different item from the different categories listed. In future enhancements it is ideal to allow users to access step-by-step instruction for the recipe and also allow them to share to external sites, like Facebook or Pinterest. Vegan and Gluten-free are the 2 main category presented to the user, there are 3 sub-category under each based on the type of food. This is a basic application that allows users to register and view food options, in future versions it can allow users to buy the recipes and also allow users to create their own category and add items.

Site map

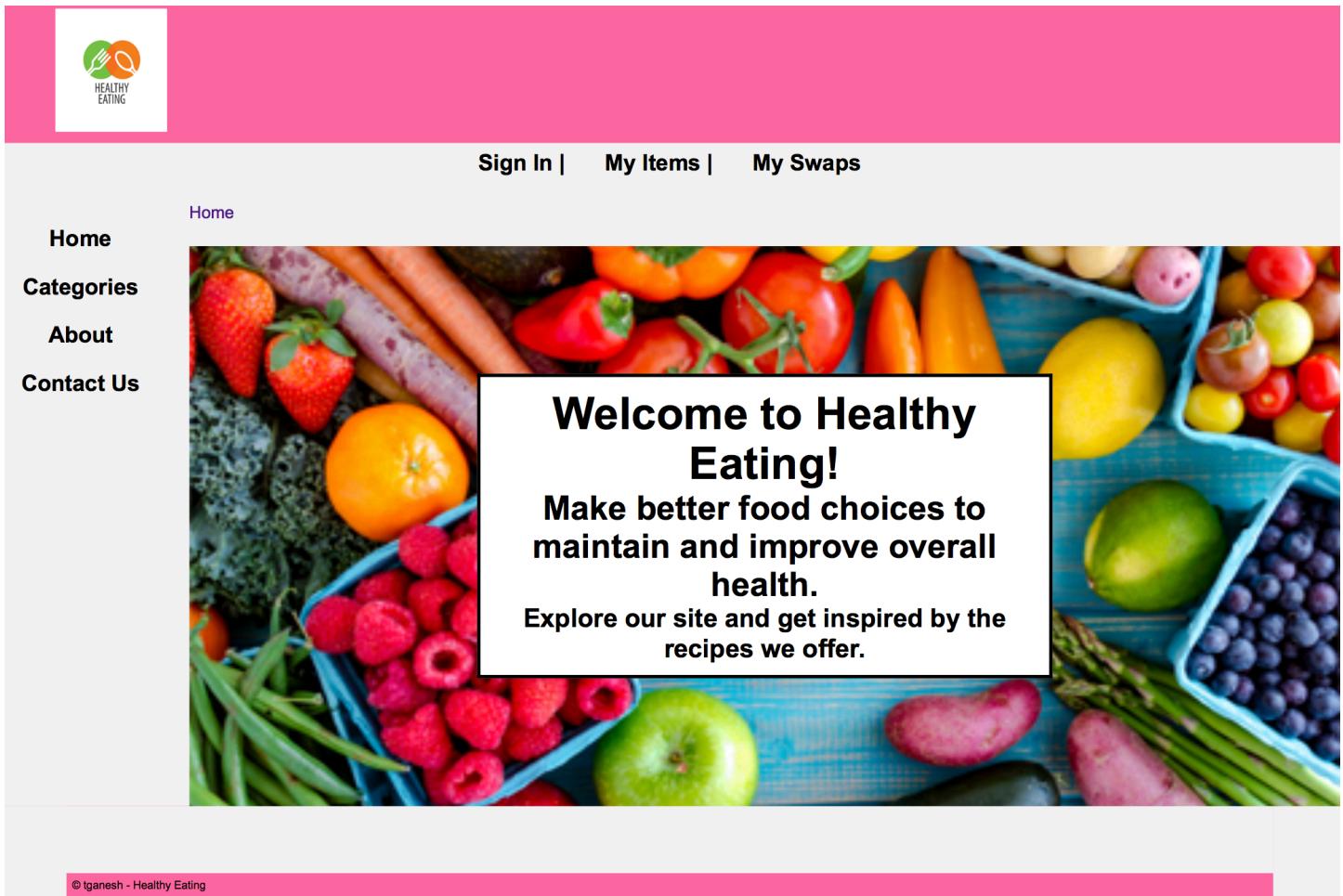
The site map diagram below represents the hierarchical structure of the HTML pages in the website. For better usability they are grouped using navigation bars. The Signup, Items and Swaps are grouped as user-navigation and the Categories, Home, About and Contact is grouped as site-navigation.

These navigation bars allow users to seamlessly navigate between pages in the application and explore the application better. Hyperlink texts and buttons are used to link the different pages in the application.



Page Design of every page

Home Page: This is the first page that is displayed when the application is connected. It displays a welcome message and shows the various options available in the user and site navigation. The header of the page holds the websites logo and the footer holds the copyrights mark. The breadcrumb on top of the welcome message indicates where the user is in the site. It shows “home” as we are in the welcome page. All the options in the navigation bar are linked to individual pages, thus helps the user to navigate.



Sign In Page:

The sign up page allows existing users to login to the system by entering the respective email and password. The “sign in” button is used to navigate the user to their items page. A hyperlink called “register” is there for first time user, it will take them to a registration page.

HEALTHY
EATING[Sign In](#) | [My Items](#) | [My Swaps](#)[Home](#)[Categories](#)[About](#)[Contact Us](#)

Email

Password

[Sign In](#)Don't have an account? [Register](#)

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Register Page:

Contains a form for registration with several input fields to be filled by the user. Once the submit button is clicked, the system validates the entered data and indicates if there are any discrepancies. The validated information is stored in the “healthyEating” database, its stored in the “users” collection.



HEALTHY
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[Sign In](#) | [My Items](#) | [My Swaps](#)

[Register](#)

[Home](#)

[Categories](#)

[About](#)

[Contact Us](#)

Sign Up

Please fill in this form to create an account.

First Name

Enter First Name

Last Name

Enter Last Name

Address 1

Enter Address 1

Address 2

Enter Address 2

City

Enter City

My Items Page:

Once the users are successfully signed into the application, the page displays the items that the user has selected, this cannot be achieved using the UI but the items are assigned to users in the database using script. The table displayed in this page shows the “category” of the item, its rating and if swapping is available or not. Clicking on the text link can change the rating. The update button is used to swap the item by taking you to the category page and give options to choose. The delete button is used to remove the item from the table, this is reflected in the database as well.



Welcome, user2

[Sign Out](#) | [My Items](#) | [My Swaps](#)

Home > My Items

[Home](#)
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Swap Healthy Recipes

Item	Category	My Ratings	Swapped		
OATS COOKIE	Cookie:Gluten Free	★ ★ ★	Available	Update	Delete
VEGGIE BURGER	Burger:Vegan	★ ★ ★ ★	Available	Update	Delete

Legend : swap offer available already swapped

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My Swaps Page:

This page lists the various swaps that the user has initiated. Withdraw button is basically to undo the swap when the user changes his mind.



Welcome, user2

[Sign Out](#) | [My Items](#) | [My Swaps](#)

Home > My Swaps

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Swap Healthy Recipes

Item	Swap Offer	
VEGGIE BURGER	TOFU SCRAMBLE	Withdraw

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About Page

Conveys the motive of the website in simple words.

Welcome, user2

Sign Out | My Items | My Swaps

Home > About Us

Home

Categories

About Welcome! A healthy diet is a diet that helps to maintain or improve overall health. A healthy diet provides the body with essential nutrition.

Contact Us There is more than one way to eat healthfully and everyone has their own eating style. Make healthier choices that reflect your preferences, culture, traditions, and budget. Choose fruits, vegetables, grains, dairy, and protein foods to get the most nutrition and meet your personal calorie needs.

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Contact Page

Displays basic contact information for further information.

Welcome, user2

Sign Out | My Items | My Swaps

Home > Contact Us

Home

Categories

About

Contact Us For more information, contact
tganesh@uncc.edu
+1(347)7204831

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Category

This page is different for signed in users and general users. For general users all the category and its subcategory are displayed. But for signed up users only the items that have not already been added to the “my items” is displayed. Basically on the items that the user hasn't already added is displayed.



HEALTHY
EATING

[Sign In](#) | [My Items](#) | [My Swaps](#)

Home > Categories

[Home](#)
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Categories

Vegan

Tofu

Potato

Burger

Gluten Free

Cookie

Pancake

Noodles

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Categories

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ER diagram

"HealthyEating" is the database that the application will be using, it consists of 4 collections namely users, items, offers and feedback. The following diagram represents the schema and the data type of each object.

